

## REMARKS

Applicant thanks the examiner for his attention to the application.

In regard to the examiner's withdrawal of claims 1, 3, 4 and 6, Applicant strenuously disagrees with the withdrawal and requests that the claims be reinstated.

The withdrawal is believed improper in that applicant with the response to the second restriction requirement provisionally elected to proceed with the species 4 connector shown at Figures 17 – 19H. As clearly shown at Figures 19a-h and described at page 13, line 17 through page 14, line 16, a hollow cylindrical substrate 76 is provided and over which a cylindrical copper layer 78, cylindrical copper band 80, cylindrical dielectric layer 82, and cylindrical copper layer 84 are sputtered to form at least resistor R1 and capacitor C1. The layer 78 particularly forms both the resistor R1 and a plate of the capacitor C1. The equalizer circuit 59 is then connected to conductors 70 and 72 and the connector bodies 66 and 68 as shown at Figure 17.

Claims 1, 3, 4 and 6 claim a connector having these very same features and particularly a housing with input and output terminals, a passive circuit defined on a cylindrical substrate comprised of a resistor and a capacitor and **wherein the resistor layer comprises a plate of the capacitor**. The examiner's withdrawal is therefore deemed improper and applicant requests the reinstatement and consideration of claims 1, 3, 4 and 6.

The remaining claims 11-12 and 17-23 stand rejected as being anticipated under 35 USC §102 by Bacher (4,153,885). Bacher is cited for showing a coaxial cable connector and a thin film circuit 54 which the examiner asserts comprises a substrate, first and second layers defining first and second capacitor plates, a dielectric layer

intermediate the first and second layers and wherein one of the first and second layers defines a resistor.

Upon closer inspection of Bacher, it is believed the examiner is mistaken and/or overstated his interpretation of what is disclosed and described. Bacher discloses an assembly that can support discrete capacitors 79, reference Figure 9 and column 9, lines 23-26, and discrete resistors 44, 46, reference Figures 2 and 10 and column 7, lines 24-55. The capacitors 79, if used to shunt the ends of the stubs 62, include circular plates 83 separated by a dielectric 81. The resistors 44, 46 are constructed as separate discrete thin film devices as noted from the specification above.

The capacitors 79 and resistors 44, 46 are also mounted separate and apart from each other. Nowhere is it shown or suggested that any of the films 60 of the resistors 44 or 46 also serve as a plate 83 of the capacitors 79.

Particular attention is drawn to Figure 2, wherein a resonant stub end 52 of a coaxial cable is secured to a storage recess 82. The plates of a capacitor 79 are soldered between a center conductor 62 and outer conductor 52 of the stub end 62 of the coaxial cable. Presumably, the capacitor-containing stub 62 might be fitted into the recess 82 of the conductor 36 that mounts in housing 12. The thin film resistors 44 and 46 shown at Figure 10, otherwise, are separately mounted to a different recess in the conductor 36 and held in contact with the center conductor 22 with retainer pins 48 that are biased by a spring 66, reference column 7, line 24 through column 8, line 3.

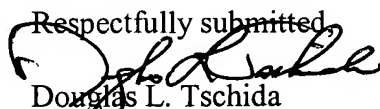
In short, nowhere does Bacher disclose a passive thin film circuit having concentric overlying layers that electrically act as both a resistor layer and a plate of a capacitor. Bacher only discloses a circuit comprised of discrete resistors and capacitors

that are independently mounted to a cylindrical support and sleeve housing. The examiner has therefore misinterpreted and/or is mistaken as to the teachings of Bacher. Moreover, nowhere does Bacher disclose an RC circuit fabricated of concentric (e.g. cylindrical or annular) layers arranged onto one another to form an impedance matching circuit. The improperly withdrawn claim 1 and amended independent claims 11, 17 and 21 are therefore believed allowable over the cited and uncited art.

In distinction to the disclosure of Bacher and/or the other provided references, independent claims 11, 17 and 21 provide for connectors fitted with a substrate (e.g. cylindrical, hollow tubular) containing concentric layers (e.g. annular, cylindrical) that define the plates of a capacitor and wherein one of the plates also defines a resistor. The RC circuit is also constructed to match the impedance of the data pathway. The various dependent claims are also believed allowable in view of the novel combinations provided thereby.

With the foregoing amendments and remarks, the application should be in a condition for allowance. Applicant requests the examiner reconsider and pass the application to allowance. If any matters remain that can be handled with a telephone conference, the examiner is encouraged to contact the undersigned.

Respectfully submitted,



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